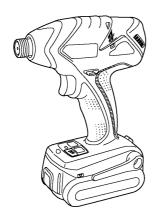
# Service Manual

**Cordless Impact Driver** 

EY7540-U1



#### **SPECIFICATIONS**

#### **MAIN UNIT**

Motor		14.4V DC		
	Soft mode	0-1000/min (rpm)		
No load speed	Medium mode	0-1400/min (rpm)		
	Hard mode	0-2300/min (rpm)		
Maximum torque		150Nm (1530kgf-cm, 173in-lbs.)		
Impact per minute	Soft mode	0-2000/min		
	Medium mode	0-2800/min		
	Hard mode	0-3000/min		
Overall length		158mm (6-1/4")		
Weight (with battery pack EY9L40)		1.45kg (3.1lbs.)		

### **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

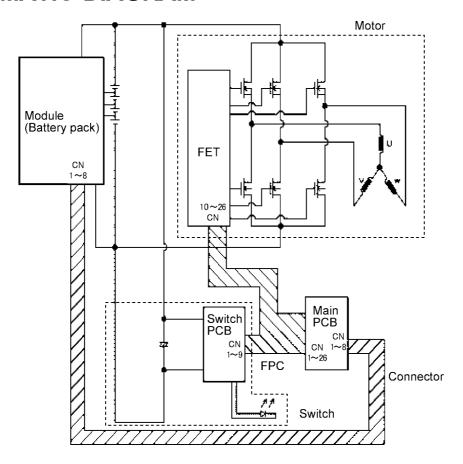
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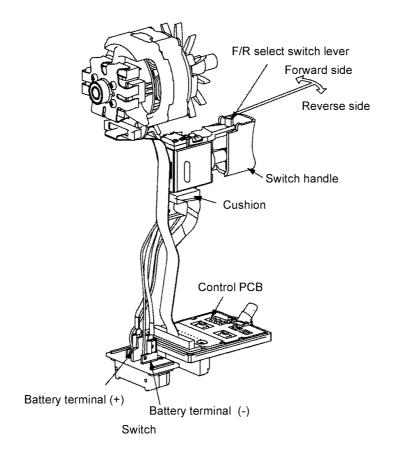
# **Panasonic**<sup>®</sup>

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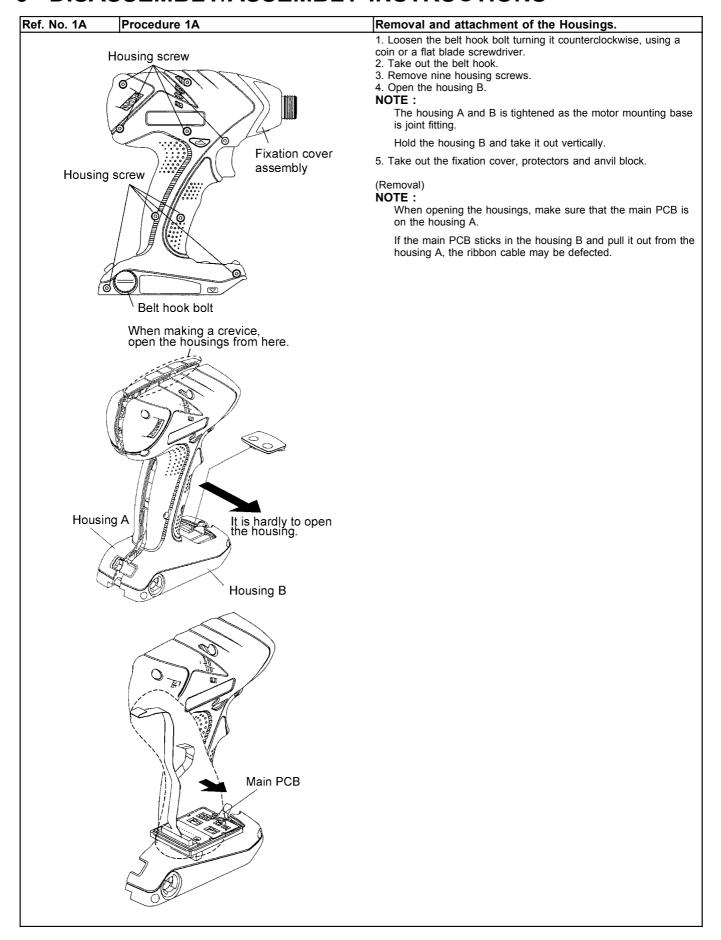
## 1 SCHEMATIC DIAGRAM

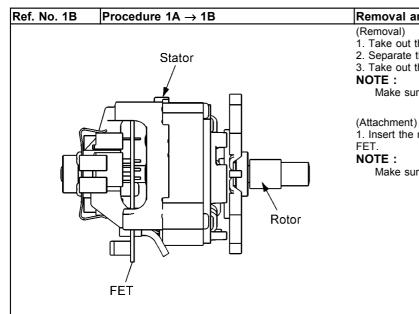


## **2 WIRING CONNECTION DIAGRAM**



## 3 DISASSEMBLY/ASSEMBLY INSTRUCTIONS





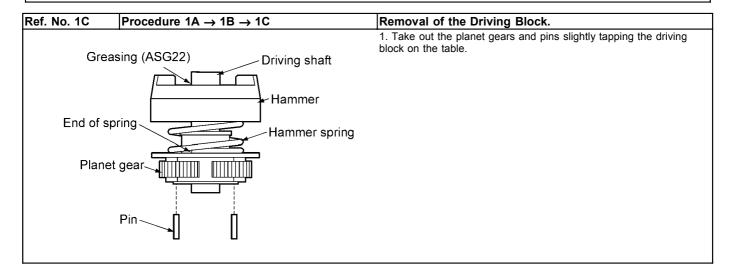
#### Removal and attachment of the Motor.

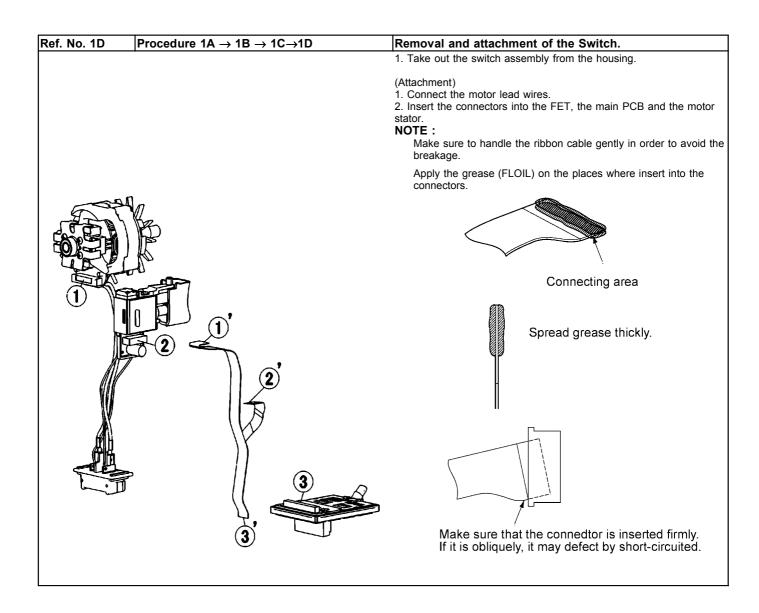
- 1. Take out the motor with the driving block from housing.
- 2. Separate the motor assembly from the driving block.
- 3. Take out the motor rotor assembly from the motor stator.

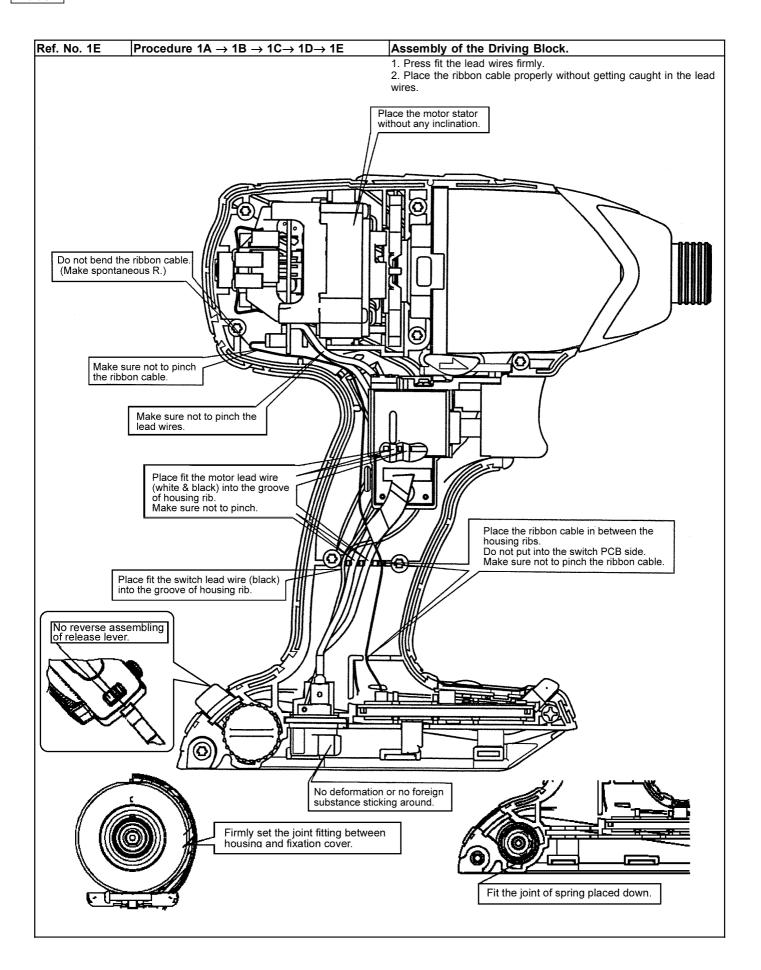
Make sure not to damage the magnet by motor rotor.

1. Insert the motor rotor assembly into the stator with care of hitching

Make sure that there is no metal powder around the motor rotor.

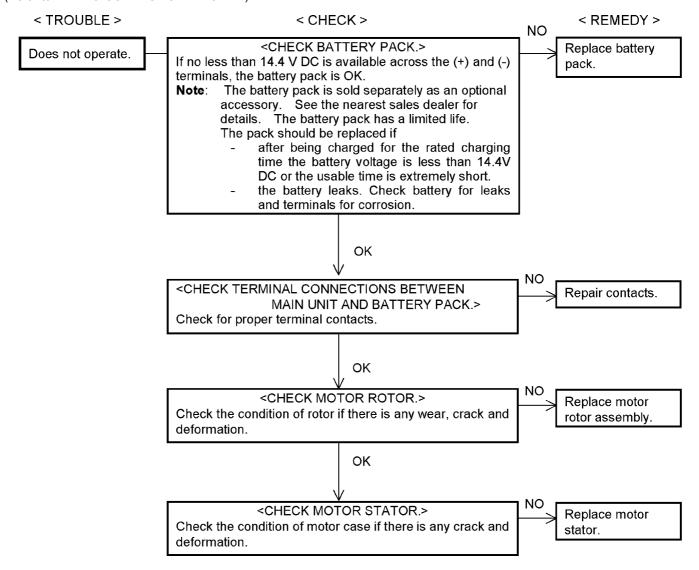


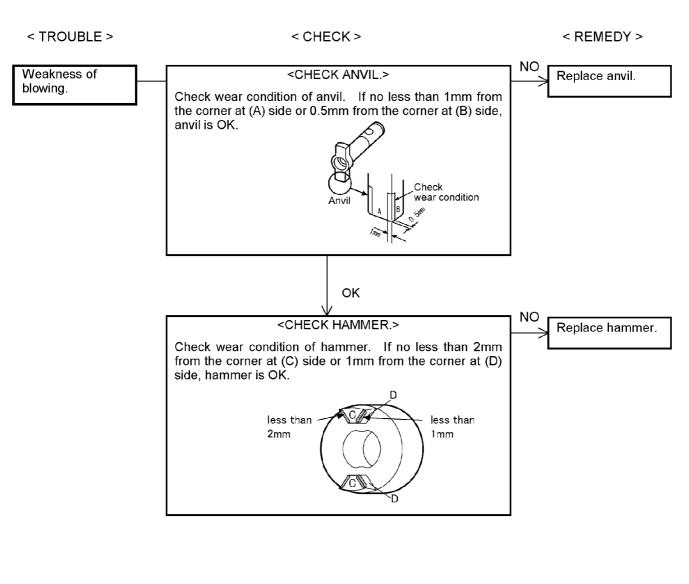




## 4 TROUBLESHOOTING GUIDE

(Refer to WIRING CONNECTION DIAGRAM)





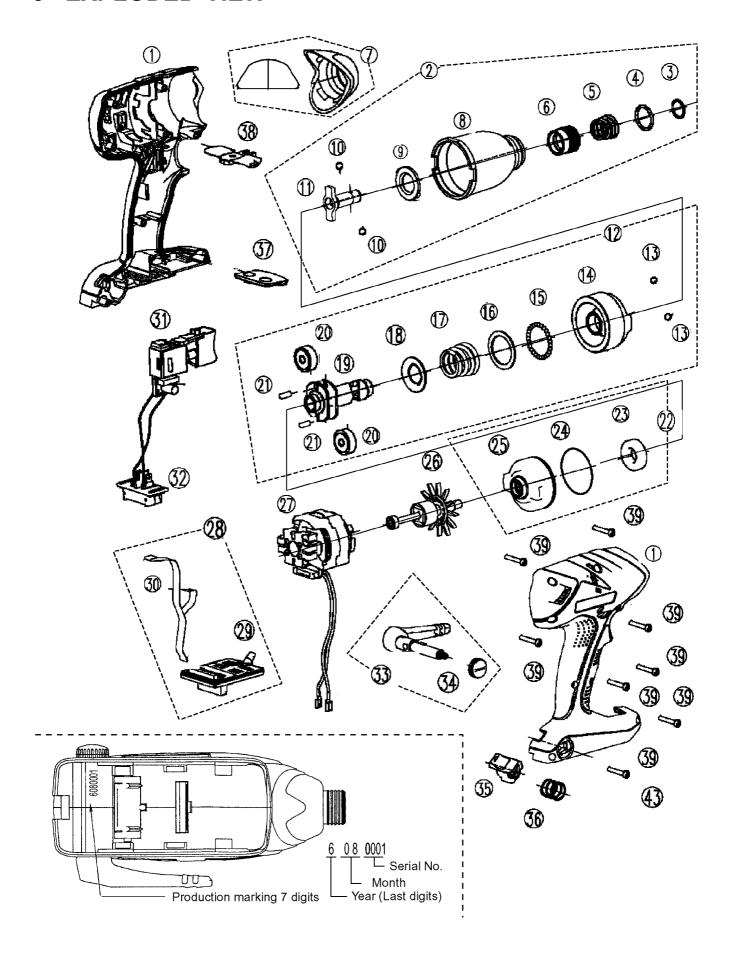
Does not operate <CHECK CONTROL PCB.> NO Replace control control panel even PCB. Remove the dust or any foreign substance stuck on the the select button is sure face of control PCB. pushed. Indication on See in detail at CHECK PARTS IDENTIFY control panel is not PROCEDURE. properly.

## **5 CHECK PARTS IDENTIFY PROCEDURE**

Phenomenon			Check order of				
			prio	priority (1:prioritymost)			
Problem	LED lights on Control panel.	Pre-check	Stator block	Battery pack	Ribbon cable	Switch assembly	Main PCB
Operation stops in an instant even the switch	No indication		3	1	2	4	5
handle is depressed.	Blinking: Battery low warning lamp			1	3	4	2
Pulsatory motion and stops.	No indication or  Blinking: Impact power mode display (Hard/Medium)		2		1	3	4
Does not operate.  Operation stops in a moment.	Blinking: Battery low warning lamp			1			2
Stops in a impact blowing.	No indication or  Blinking: Impact power mode  display (Hard/Medium)		3	1	2	4	5
One direction only either forward rotation or reverse rotation.	-				3	1	2
Rotation stops while depressing the switch handle slowly.	-					1	
Operation does not start in an instant.	-					1	
-	LED does not light up.	Confirm if the switch handle is depressed before pressing LED light ON/OFF button.					1
-	Impact mode does not change even pressing the mode button.	Confirm if the switch handle is depressed before pressing the impact mode button.			3	2	1

CHECK POINT					
	1. If there is continuity between (+) lead wire and motor coil, motor stator should be defective.				
Motor stator	2. If there is continuity between (-) lead wire and motor coil, motor stator should be defective.				
	3. Operation test.				
Battery pack	See in detail at TROBLESHOOTING GUIDE.				
Ribbon cable	Visual inspection for breakage.				
Switch assembly	Operation test.				
Module assembly	Operation test.				
LED	ON/OFF operation test.				
	No wear, scratch and damage.				
Motor rotor assembly	No breakage of fan and seizure on bearing.				
	3. No discoloration of coil.				

## **6 EXPLODED VIEW**



## 7 REPLACEMENT PARTS LIST

#### NOTE:

\*B=only available as set

\*C=available individually

Ref.No.	Part No.	Part Name & Description Remarks			Per Unit	
1	WEY7540K3078	HOUSING AB SET				1
2	WEY7540K4058	FIXATION COVER ASSEMBLY				1
3	WEY6507K1166	C-TYPE RING				1
4	WEY6507L0856	THRUST PLATE				1
5	WEY6507L0196	BIT HOLDER SPRING				1
6	WEY7540K3717	BIT HOLDER				1
7	WEY7540K3107	NOSE PROTECTOR				1
8	WEY7540L3137	FIXATION COVER				1
9	WEY6505L0866	SLIDER				1
10	WEY6507L6976	STEEL BALL	*B	Φ 5/32 (2PCS/PK)		2
11	WEY7540L1128	ANVIL				1
12	WEY7540L1067	DRIVING SHAFT ASSEMBLY				1
13	WEY7201L6966	STEEL BALL	*B	Ø 7/32 (2PCS/PK)		2
14	WEY7540L1377	HAMMER				1
15	WEY7300L6956	STEEL BALL	*B	(27PCS/PK)		27
16	WEY6505L0896	THRUST PLATE				1
17	WEY7540L0217	HAMMER SPRING				1
18	WEY6508L1146	SPRING FIXING PLATE				1
19	WEY7540L1137	DRIVING SHAFT				1
20	WEY6504L1357	PLANET GEAR	*B	(2PCS/PK)		2
21	WEY6506L1346	PIN	*B	(2PCS/PK)		2
22	WEY7540L0028	MOTOR MOUNTING PLATE ASSEMBLY				1
23	WEY7201L4956	BEARING				1
24	WEY7201L0986	O-RING				1
25	WEY7201L3746	MOTOR MOUNTING PLATE				1
26	WEY7540L1467	MOTOR ROTOR ASSEMBLY				1
27	WEY7540L1187	STATOR				1
28	WEY7540L2108	MODULE ASSEMBLY				1
29	WEY7540L2128	CONTROL PCB				1
30	WEY7540L2067	RIBBON CABLE				1
31	WEY7540K2007	SWITCH ASSEMBLY			(SH)	1
32	WEY7540L2157	BATTERY TERMINAL BLOCK				1
33	WEY7540K3217	BELT HOOK SET				1
34	WEY6470K3186	BELT HOOK BOLT				1
35	WEY7540H0407	HOOK RELEASE LEVER				1
36	WEY7540L0167	SPRING FOR RELEASE LEVER				1
37	WEY7540K3338	OPERATION PANEL				1
38	WEY7540H3247	F/R SELECTOR HANDLE				1
39	WEY6230K9216	TORX TAPPING SCREW	*C	K3-20		9
-	WEY9633K7018	TOOL CASE			(SH)	1
-	WEY7540K8108	OPERATING INSTRUCTIONS			(SH)	1

<sup>\*\*</sup>Battery Pack is available as an optional accessory. See the nearest sales dealer for details.

Charger complete set is available as an optional accessory. See the nearest sales dealer for details.

<sup>\*\*\*</sup>For replacement parts of charger, see the charger service manual.